

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau(43) International Publication Date  
23 October 2003 (23.10.2003)

PCT

(10) International Publication Number  
**WO 03/087210 A1**

- (51) International Patent Classification<sup>7</sup>: C08K 5/103, C08L 69/00, 67/00 (74) Agents: KRIJGSMAN, Willem et al.; DSM Patents & Trademarks, P.O. Box 9, NL-6160 MA Geleen (NL).
- (21) International Application Number: PCT/NL03/00203 (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 19 March 2003 (19.03.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 02076313.2 5 April 2002 (05.04.2002) EP (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicant (*for all designated States except US*): DSM IP ASSETS B.V. [NL/NL]; Het Overloon 1, NL-6411 TE Heerlen (NL).
- (72) Inventors; and (75) Inventors/Applicants (*for US only*): BOS, Martinus, Louis, Maria [NL/NL]; Koningstraat 93, NL-6121 HS Born (NL). VAN HARTINGSVELDT, Edwin, Adriaan, Andre [NL/NL]; Aylvalaan 28, NL-5112 BC Maastricht (NL).
- Published:  
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: THERMOPLASTIC COMPOSITION COMPRISING AN AROMATIC POLYCARBONATE AND/OR A POLYESTER WITH IMPROVED MOULD RELEASE BEHAVIOUR

(57) Abstract: The invention relates to a thermoplastic composition comprising (a) an aromatic polycarbonate and/or a polyester, and (b) an effective amount of a mould release agent containing (b1) a fatty acid ester of an aliphatic polyol having 2-6 hydroxy groups and an aliphatic C<sub>10</sub>-C<sub>36</sub> carboxylic acid; and (b2) a saturated alpha-olefin oligomer of at least one C<sub>6</sub>-C<sub>18</sub> alpha-olefin; the mass ratio of components (b1) and (b2) being from 1/9 to 9/1. With this thermoplastic composition a very regular injection moulding processing is possible, with lower release forces needed during demoulding of parts, and with shorter total moulding cycle-times. The invention further concerns the use of the thermoplastic composition according to the invention for injection moulding of articles and to moulded articles thus obtained.



WO 03/087210 A1